

# SAFETY SUPPLEMENT

## TECHNICAL MANUAL

### AEROSPACE EMERGENCY RESCUE AND MISHAP RESPONSE INFORMATION (EMERGENCY SERVICES)

THIS PUBLICATION SUPPLEMENTS TO 00-105E-9 REVISION 9, DATED 1 JULY 2004, LOCATED AT WEB SITE:  
<http://www.robins.af.mil/logistics/LGEDA/Documents/to00-105e-9.htm>.

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PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR FORCE

**13 October 2004**

#### 1. PURPOSE.

This supplement provides instructions for update of TO 00-105E-9 Revision 9, dated 1 July 2004, affecting Chapters 31, 32, and 33 for NATO Aircraft. This supplement is a new file for the latest information regarding the NATO E-3A, Trainer/Cargo Aircraft (TCA), and Multi-Role Transport Tanker (MRTT) aircraft procedures.

#### 2. INSTRUCTIONS.

- a. This information, formatted in PDF, can be downloaded and printed from this web site by the end user. Use the most current Adobe Reader for this function, available free from [Adobe.com](http://Adobe.com).
- b. This supplement to Chapters 31, 32, and 33 adds information based on newly researched source data information regarding these aircraft. The new file update should be added to Chapters 31, 32, and 33 in TO 00-105E-9 Revision 9. The end user should save this file and print the affected pages, if applicable to the user's operation. File a copy of this Safety Supplement with the main Technical Order according to current regulations.

#### NOTE

This information should also be included in mobility boxes where applicable. If your unit or a part of your unit is serving elsewhere, they should be informed of this Safety Supplement and how to obtain it. See TO 00-5-2 paragraphs 1-1.4, 1-1.4.1, and 1-1.6 for Local Reproduction of TOs and Digital Media guidance.

THE END

## NATO AIRCRAFT COMPONENT

E-3A

**Aircraft Dimensions:** Wingspan: 44.45 m / 145 ft 9 in  
Length: 46.68 m / 152 ft 11 in  
Height: 12.70 m / 41 ft 9 in  
*Rotodome* Diameter: 9.1 m / 30 ft  
Thickness: 1.8 m / 6 ft  
Height: 3.35 m / 11 ft  
Rotation: once every 10 seconds

**Radar coverage:** One E-3A flying at 30,000 ft / 9,150 m has over 312,000 km<sup>2</sup> in its field of view. Three E-3As in overlapping orbits can provide complete coverage of Central Europe. An E-3A can detect low flying targets within 400 km or 215 nautical miles; and at medium altitude targets within 520 km or 280 nautical miles.

**Primary function:** Airborne surveillance, command, control and communications.

**Power plant:** Four TF-33 Pratt & Whitney 100A turbofan engines.

**Speed:** More than 800 km/500 miles per hour.

**Operational altitude:** Above 9,150 m/30,000 ft.

**Maximum take-off weight:** 147,429 kg/325,000 lbs.

**Fuel capacity:** 89,610 liters / 70,371 kg 22,768 gallons/148,000 lbs.

**Endurance:** More than 10 hours (unrefueled). All air-refuelable.

**Armament:** None.

**Aircrew:** *Flight crew* 2 pilots, 1 navigator, 1 flight engineer  
*Mission crew* 1 tactical director, 1 fighter allocator, 2 weapons controllers, 2 surveillance control officers, 3 surveillance operators, 1 communications operators, 1 communications technician, 1 radar technician, 1 computer display technician.  
(Total number can vary for a specific mission.)

**Prime contractor:** Boeing Aerospace Co., Seattle, Washington, USA



## NATO TRAINER CARGO AIRCRAFT (TCA)

NATO's Trainer Cargo Aircraft (TCA) is a modified Boeing 707-320C. The pilot's station is almost identical to the E-3A. The aircraft is capable of conducting air refuelling training, however fuel cannot be loaded due to having only a "dry" air refuelling receptacle. The aircraft can be quickly changed from an all passenger to all cargo configuration, and can be operated in a configuration carrying both cargo and passengers.

**Primary function:** Pilot training, cargo and passenger transport support.

**Power plant:** Four Pratt & Whitney JT-3D-7 turbofan engines.

**Thrust:** 19,000 lbs / 8837 kp each engine.

**Aircraft Dimensions:** Wingspan: 44.45 m / 145 ft 9 in  
Length: 46.68 m / 152 ft 11 in  
Height: 12.70 m / 41 ft 9 in

**Speed:** More than 966 km / 600 miles per hour

**Operational altitude:** Above 9,150 m / 30,000 ft

**Range:** More than 11,000 km / 7,000 miles

**Maximum take-off weight:** 152,727 kg / 336,000 lbs

**Fuel capacity:** 89,610 litres / 70,371 kg 22,768 gallons / 148,000 lbs

**Endurance:** More than 12 hours

**Aircrew:** 2 pilots 1 flight engineer

**Location:** Main Operating Base (MOB) Geilenkirchen, Germany



# NATO MULTI-ROLE TRANSPORT TANKER

**A310-MRTT****NOTE:**

The Airbus A310-MRTT (Multi-Role Transport Tanker) is an extended range airliner. Additional fuel tanks will be added to the lower cargo compartments. For further information please see Chapter 28 AIRBUS A310-300.

**AIRCRAFT DIMENSIONS:**

Wing Span 144' 0" (43.89 M)

Length with Probe 155' 4.25" (47.36 M)

Height 51' 10" (15.80 M)

**ACCOMODATION:**

Crew of two on flight deck. Aircraft is certified up to 270 people and can be converted with palletized configuration in 24 hours.

**CONFIGURATIONS:**

Refueling, medevac, airborne command post and reconnaissance/airborne warning.

**ARMAMENT:**

None carried.

